

PTO/SB/08A (10-96)
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Substitute for form 1449A/PTO

(use as many sheets as necessary)

Complete if Known

Application Number	unknown
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Filing Date

First Named Inventor	Furlan et al.
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Group Art Unit

Examiner Name

Attorney Docket Number | P014

Sheet	1	of	1
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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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**Examiner
Signature**

Date
Considered

5/16/2005

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

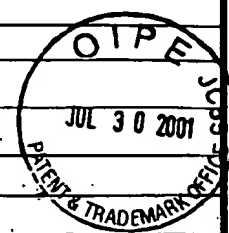
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>09/835,617</td> </tr> <tr> <td>Filing Date</td> <td>4/10/2001</td> </tr> <tr> <td>First Named Inventor</td> <td>Furlan et al.</td> </tr> <tr> <td>Group Art Unit</td> <td>2182</td> </tr> <tr> <td>Examiner Name</td> <td></td> </tr> <tr> <td>Attorney Docket Number</td> <td>P014</td> </tr> </table>		Application Number	09/835,617	Filing Date	4/10/2001	First Named Inventor	Furlan et al.	Group Art Unit	2182	Examiner Name		Attorney Docket Number	P014
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Sheet	1	of	13													



U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (# known)			
[Handwritten signature]	1	2,146,662		L.E.W. Van Albada	02/07/1939	
	2	2,244,235		W.A. Ayres	06/03/1941	
	3	2,304,434		W.A. Ayres	12/08/1942	
	4	2,628,529		L.E. Braymer	02/17/1953	
	5	2,654,286		J.M. Cesar	10/06/1953	
	6	3,203,328		H.P. Brueggeman	08/31/1965	
	7	3,205,777		A. Benner	09/14/1965	
	8	3,229,576		D.W. Rees	01/18/1966	
	9	3,692,934		Hemdon	09/19/1972	
	10	3,723,805		Scarpino et al.	03/27/1973	
	11	3,785,715		Mecklenborg	01/15/1974	
	12	3,832,046		Mecklenborg	08/27/1974	
	13	3,846,809		Pinzone et al.	11/05/1974	
	14	3,934,259		Krider	01/20/1976	
	15	3,998,532		Dykes	12/21/1976	
	16	4,012,126		Rosendahl et al.	03/15/1977	
	17	4,017,145		Jerie	04/12/1977	
	18	4,038,670		Seitz	07/26/1977	
	19	4,058,831		Smith	11/15/1977	
	20	4,078,860		Globus et al.	03/14/1978	

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		Office ²	Number ⁴	Kind Code ⁵ (# known)				
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MS	22	GB	2,289,820		United Kingdom	11/29/1995		
MS	23	HEI	2-127877		Japan	11/08/1988		✓
MS	24	GB	2 221 118		United Kingdom	1/24/1990		

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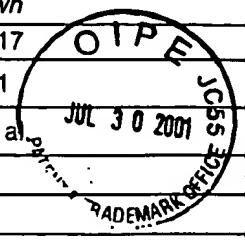
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known	
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			Filing Date	4/10/2001
			First Named Inventor	Furlan et al.
			Group Art Unit	2182
			Examiner Name	
Sheet <u>2</u> of <u>13</u>			Attorney Docket Number	P014



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		Number	Kind Code ² (# known)			
	25	4,157,218		Gordon et al.	06/05/1979	
	26	4,190,866		Lukner	02/26/1980	
	27	4,241,985		Globus et al.	12/30/1980	
	28	4,326,775		King	04/27/1982	
	29	4,395,093		Rosendahl et al.	07/26/1983	
	30	4,429,957		King	02/07/1984	
	31	4,463,380		Hooks, Jr.	07/31/1984	
	32	4,518,898		Tamowski et al.	05/21/1985	
	33	4,549,208		Kamejima et al.	10/22/1985	
	34	4,561,733		Kreischer	12/31/1985	
	35	4,566,763		Greguss	01/28/1986	
	36	4,578,682		Hooper et al.	03/25/1986	
	37	4,593,982		Rosset	06/10/1986	
	38	4,602,857		Woltz et al.	07/29/1986	
	39	4,656,506		Ritchey	04/07/1987	
	40	4,661,855		Gulck	04/28/1987	
	41	4,670,648		Hall et al.	06/02/1987	
	42	4,728,839		Coughlan et al.	03/01/1998	
	43	4,736,436		Yasukawa et al.	04/05/1988	
	44	4,742,390		Francke et al.	05/03/1988	

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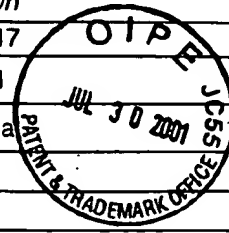
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Sheet	3	of	13	Attorney Docket Number	P014

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		Number	Kind Code ² (# known)			
	45	4,751,660		Hedley	06/14/1988	
	46	4,754,269		Kishi et al.	06/28/1988	
	47	4,761,641		Schreiber	08/02/1988	
	48	4,772,942		Tuck	09/20/1988	
	49	4,797,942		Burt et al.	01/10/1989	
	50	4,807,158		Blanton et al.	02/21/1989	
	51	4,835,532		Fant	05/30/1989	
	52	4,858,002		Zobel	08/15/1989	
	53	4,858,149		Quarendon	08/15/1989	
	54	4,864,335		Corrales	09/05/1989	
	55	4,868,682		Shimizu et al.	09/19/1989	
	56	4,899,293		Dawson et al.	02/06/1990	
	57	4,901,140		Lang et al.	02/13/1990	
	58	4,907,084		Nagafusa	03/06/1990	
	59	4,908,874		Gabriel	03/13/1990	
	60	4,918,473		Blackshear	04/17/1990	
	61	4,924,094		Moore	05/08/1990	
	62	4,943,821		Gelphman et al.	07/24/1990	
	63	4,943,851		Lang et al.	06/24/1990	
	64	4,945,367		Blackshear	07/31/1990	

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M S J	65	4,965,844		Oka et al.	10/23/1990	
	66	4,974,072		Hasegawa	11/27/1990	
	67	4,985,762		Smith	01/15/1991	
	68	5,020,114		Fujioka et al.	05/28/1991	
	69	5,021,813		Corrales	06/04/1991	
	70	5,023,725		McCutchen	06/11/1991	
	71	5,038,225		Maeshima	08/06/1991	
	72	5,040,055		Smith	08/13/1991	
	73	5,048,102		Taratine	09/10/1991	
	74	5,067,019		Juday et al.	11/19/1991	
	75	5,068,735		Tuchiya et al.	11/26/1991	
	76	5,077,609		Manephe	12/31/1991	
	77	5,083,389		Alperin	01/28/1992	
	78	5,097,325		Dill	03/17/1992	
	79	5,115,266		Troje	05/19/1992	
	80	5,130,794		Ritchey	07/14/1992	
81	5,153,716		Smith	10/06/1992		
82	5,157,491		Kassatly	10/20/1992		
83	5,166,878		Poelstra	11/24/1992		

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M S K	84	5,173,948		Blackham et al.	12/22/1992	
	85	5,175,808		Sayre	12/29/1992	
	86	5,185,667		Zimmermann	02/09/1993	
	87	5,187,571		Braun et al.	02/16/1993	
	88	5,189,528		Takashima et al.	02/23/1993	
	89	5,200,818		Neta et al.	04/06/1993	
	90	5,231,673		Elenga	07/27/1993	
	91	5,259,584		Wainwright	11/09/1993	
	92	5,262,852		Eouzan et al.	11/16/1993	
	93	5,262,867		Kojima	11/16/1993	
	94	5,280,540		Addeo et al.	01/18/1994	
	95	5,289,312		Hashimoto et al.	02/22/1994	
	96	5,305,035		Schönherr et al.	04/19/1994	
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98	5,313,306		Kuban et al.	05/17/1994		
99	5,315,331		Ohshita	05/24/1994		
100	5,341,218		Kaneko et al.	08/23/1994		
101	5,359,363		Kuban et al.	10/25/1994		
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103	5,396,583		Chen et al.	03/07/1995		

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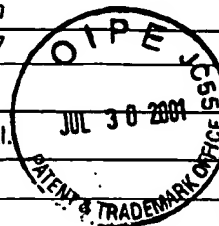
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	104	5,422,987		Yamada	06/06/1995	
	105	5,432,871		Novik	07/11/1995	
	106	5,444,476		Conway	08/22/1995	
	107	5,446,833		Miller et al.	08/29/1995	
	108	5,452,450		Delory	09/19/1995	
	109	5,473,474		Powell	12/05/1995	
	110	5,479,203		Kawai et al.	12/26/1995	
	111	5,490,239		Myers	02/06/1996	
	112	5,495,576		Ritchey	02/27/1996	
	113	5,508,734		Baker et al.	04/16/1996	
	114	5,530,650		Bifero et al.	06/25/1996	
	115	5,539,483		Nalwa	07/23/1996	
	116	5,550,646		Hassen et al.	08/27/1996	
	117	5,563,650		Poelstra	10/08/1996	
	118	5,601,353		Naimark et al.	02/11/1997	
	119	5,606,365		Maurinus et al.	02/25/1997	
	120	5,610,391		Ringlien	03/11/1997	
	121	5,612,533		Judd et al.	03/18/1997	
122	5,627,675		Davis et al.	05/06/1997		
123	5,631,778		Powell	05/20/1997		

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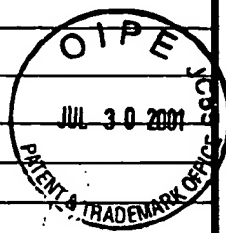
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Application Number		09/835,617			
Filing Date		4/10/2001			
First Named Inventor		Furlan et al.			
Group Art Unit		2182			
Examiner Name					
Attorney Docket Number		P014			
Sheet	7	of	13		



U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	124	5,633,924		Kaish et al.	05/27/1997	
	125	5,649,032		Burt et al.	07/15/1997	
	126	5,682,511		Sposato et al.	10/28/1997	
	127	5,686,957		Baker et al.	11/11/1997	
	128	5,714,997		Anderson et al.	02/03/1998	
	129	5,729,471		Jain et al.	03/17/1998	
	130	5,760,826		Nayer	06/02/1998	
	131	5,761,416		Mandal et al.	06/02/1998	
	132	5,764,276		Martin et al.	06/09/1998	
	133	5,796,426		Gullichsen et al.	08/18/1998	
	134	5,841,589		Davis et al.	11/24/1998	
	135	5,850,352		Moezzi et al.	12/15/1998	
	136	5,854,713		Kuroda et al.	12/29/1998	
	137	5,877,801		Martin et al.	03/02/1999	
	138	5,903,319		Busko et al.	05/11/1999	
	139	5,920,337		Glassman et al.	07/06/1999	
	140	6,034,716		Whiting et al.	06/02/1998	
	141	DES 263,716		Globus et al.	04/06/1982	
	142	DES 312,263		Charles	11/20/1990	

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				

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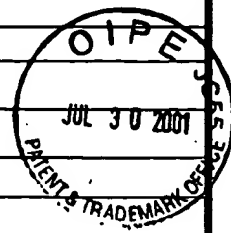
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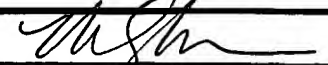
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	09/835,617	
			Filing Date	4/10/2001	
			First Named Inventor	Furlan et al.	
			Group Art Unit	2182	
			Examiner Name		
Sheet	9	of	13	Attorney Docket Number	P014



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Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MS	157	HECKBERT, P., "Survey of Texture Mapping" IEEE CG&A, Nov. 1986, pages 56-67. ✓	
MS	158	RIPLEY, G. DAVID, "DVI-A Digital Multimedia Technology". Communication of the ACM. July 1989. Vol.32. No.07. Pages: 811-820. ✓	
MS	159	ONOE M. and KUNO Y., "Digital Processing OF Images Taken By Fish-Eye Lens". 1982. IEEE. Pages: 105-108. ✓	
MS	160	HAMIT, F., "Near- Fisheye CCD Camera Broadens View for Imaging". Advanced Imaging. March 1993. Pages: 50-52. ✓	
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MS	162	UPSTILL, STEVE. "Building Strong Images". UNIX Review. October 1988. Vol. 06. No. 10. Pages: 63-73. ✓	

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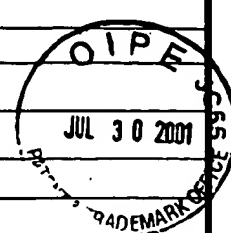
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MS	163	GREENE, N., "Environment Mapping and Other Applications of the World Projections." Computer Graphics and Applications. November 1986. IEEE Computer Society. Vol.06. No.11. Pages: 21-29.	Technology Center 2100
MS	164	HECKBERT, P., "The PMAT and Poly User's Manual". Computer Graphics Lab. N.Y.I.T., February 18, 1983. Pages: 1-29.	
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MS	166	REBIAT, M., MANSOURI, S., PINSON, F., and TICHIT, B., "Image Distortion From Zoom Lenses: Modeling and Digital Correction". International Broadcasting Convention. IEEE. Dated: July 1992.	
MS	167	CHARLES, JEFFERY R., "All-Sky Reflector with "Invisible" Camera Support". Images from 1988 RTMC Proceedings. Pages: 79-80.	
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	170	DEUTSCH, CLAUDIA H., "One Camera That Offers Many Views". The New York Times v146, February 3, 1997, pages 02.	
	171	JOHNSON, COLIN R., "Imaging System Sees All". Electronic Engineering Times. December 23, 1996. Pages: 08.	
	172	SPICE, BRYON, "Panospheric Camera Expands Horizon". Pittsburgh Post-Gazette, June 2, 1997, Pages: 03	

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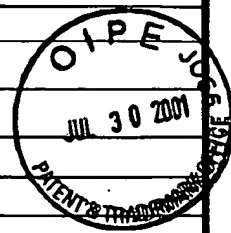
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Substitute for form 1449B/PTO			Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	09/835,617
			Filing Date	4/10/2001
			First Named Inventor	Furlan et al.
			Group Art Unit	2182
			Examiner Name	
Sheet 11 of 13	Attorney Docket Number P014			



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MS	173	CASTLEMAN, K., "Digital Image Processing". Prentice Hall. 1979. Pages: 110-135, 383-400, 408.	✓
MS	174	CASTLEMAN, K., "Digital Image Processing". Prentice Hall. 1996. Pages: 125-127, 140-141.	✓
MS	175	SHAH, S. et al., "A Simple Calibration Procedure For Fish-Eye (High Distortion) Lens Camera. IEEE. 1994. Pages: 3422-3427.	✓
MS	176	Snyder, John. "Gnomonic Projection". Map Projections-A Working Manual. Pages: 164-168, 1987.	✓
MS	177	GREENE, N., and HECKBERT, P., "Creating Raster Omnimax Images From Multiple Perspective Views Using The Elliptical Weighted Average Filter". IEEE. 1986. Pages: 21-27.	✓
MS	178	FANT, K., "A Nonaliasing, Real-Time Spatial Transform Technique". IEEE. 1986. Pages: 71-80.	✓
MS	179	GREENE, WILLIAM B., "Qualitative Image Processing Techniques". Digital Image Processing, A Systems Approach. 2 nd Edition. 1989. Van Nostrand Reinhold. Pages: 92-112.	✓
MS	180	WOLBERG, GEORGE. Digital Image Warping (Introduction). 1990. IEEE Computer Society Press. Pages: 2.	✓
MS	181	FU, K.S. et al., "Low-Level Vision". Robotics: Control, Sensing, Vision, and Intelligence. 1987. McGraw Hill Inc., Pages: 313-315.	✓
MS	182	CARLBOM, INGRID et al. "Planner Geometric Projections and Viewing Transformations". Computing Surveys. Volume 10. No. 04. December 1978. Pages: 465-502.	✓
MS	183	ANDERSON, R.L., et al., "Omnidirectional Real time Imaging Using Digital Restoration". High Speed Photography SPIE. Volume 348. San Diego, CA. 1982. Pages: 807-814.	✓

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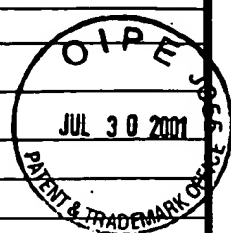
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Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	09/835,617
				Filing Date	4/10/2001
				First Named Inventor	Furlan et al.
				Group Art Unit	2182
				Examiner Name	
Sheet	12	of	13	Attorney Docket Number	P014



OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
MS	184	LAIRIN, MILTON. "Wide Angle Lens System". 1980. International Design Conference (OSA). SPIE. Volume 237. 1980. Pages: 530-532, 815-816.	✓
MS	185	SHAH, SHISHI et al., "Depth Estimation Using Stereo Fish-Eye Lenses". IEEE. Department Of Electrical and Computer Engineering. University of Texas. 1994. Pages: 740-744.	✓
MS	186	TSAL, ROGER Y., "A Versatile Camera Calibration Technique for High Accuracy 3-D Machine Vision Using Off-the-Shelf TV Cameras and Lenses". IEEE. Journal of Robotics and Automation. Volume RA-3. No.04. August 1987. Pages: 323-344.	✓
MS	187	CHANG, YUH-LIN et al., "Calibrating a Mobile Camera's Parameters". Pattern Recognition. Volume 26. No. 01. Dated: 1983. Pages: 75-88.	✓
MS	188	WENG, JUANG. "Camera Calibration With Distortion Models and Accuracy Evaluation." IEEE. Transactions On Pattern Analysis and Machine Intelligence. Volume 14. No. 10. October 1992. Pages: 965-980.	✓
MS	189	LENZ, REIMER K. et al., "Techniques for Calibration of the Scale Factor and Image Center for High Accuracy 3-D Machine Vision Metrology". IEEE. Transaction on Pattern Analysis and Machine Intelligence. Volume 05. No. 05. September 1988. Pages: 713-720.	✓
MS	190	NOMURA, YOSHIHIKO, et al., "Simple Calibration Algorithm for High-Distortion Lens Camera". IEEE. Transaction on Pattern Analysis and Intelligence Machine. Volume 14. No.11. November 1992. Pages: 1095-1099.	✓
MS	191	Lee, Martin., Telerobotics International, Inc. "Optimizing The Camera And Positioning System For Telerobotic Worksite Viewing"	✓
MS	192	MIYAMOTO, K., "Fish Eye Lens". JOSA. Vol.54. Pages: 1060-1061. Dated: August 1964.	✓

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Filing Date	4/10/2001	
			First Named Inventor	Furlan et al.	
			Group Art Unit	2182	
			Examiner Name		
			Attorney Docket Number	P014	
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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MP	193	Defendant's IPI's Composite Exhibit List, Civil Action of Interactive Pictures Corporation, F/K/A Omniview, Inc. v. Infinite Pictures, Inc. and Bill Tillman. Case No. 3-96-849. Filed: January 05, 1998 in U.S.D.C., Eastern District Of Tennessee. Pages: 20.	
MS	194	VERITY, JOHN W. (edited by): Information Processing. Business Week. Page: 134E. Dated: July 13, 1992.	
MP	195	MARBACH, WILLIAM D. (edited by): Developments To Watch. Business Week. Page: 83. Dated: September 26, 1988.	
MP	196	CARNEVALE, MARY LU. Video Camera Puts The Viewer in Control. Wall Street Journal. Dated: November 25, 1992.	
MP	197	Popular Science. Electronic Panning Camera System. Pages: 36-37. Dated: September 1992.	
MP	198	TULLOCH, MARTHA. "New Video Camera Lets Viewers Choose Views" Photonics Spectra. Pages: 18-20. Dated: October 1992.	
MP	199	FISHER, TIMOTHY E., "A Programmable Video Image Remapper. SPIE> Vol. 938. Pages: 122-128. Dated: 1988.	
MP	200	LIPPMAN, ANDREW. Movie-Map: An Application Of The Optical Videodisc To Computer Graphics. Pages: 43. Dated: 1980.	
MP	201	YELICK, STEVEN. Anamorphic Image Processing. Pages: 1-37, Including Acknowledgement Page. Dated: 1980.	
MP	202	CHEN, SHENCHANG ERIC. "Quick Time VR-An Image-Based Approach To Virtual Environment Navigation. Pages: 39. Dated: 1995.	
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